2.9 Holding the jack with one hand, turn the jack handle in a clockwise direction until the base plate reaches the ground.

NOTE: Wear gloves when winding up the jack (protection against hand injury).

2.9.1 Before operating jack, please check jack components are not catching on side overhang of caravan.

CAUTION:
The base plate must sit flat on ground, vertical to chassis member. See fig 4.

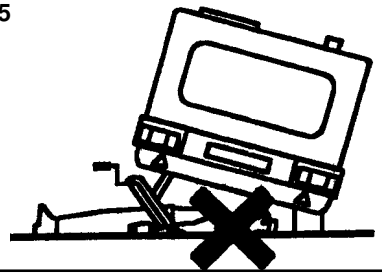
If these precautions are not observed; there is danger of damage to the vehicle jack or caravan.

2.10 Lift caravan by continuing to turn the handle in a clockwise direction (only lift the vehicle until the wheel is no longer in contact with the ground (Max. 375mm)).

3. WARNING

3.1 Never lie underneath a jacked-up vehicle, as this is dangerous and could result in serious injury.

Fig 5



4. TECHNICAL DATA

Min. Ground Clearance A (mm) Fig 6a	Max. Lifting Ht. B (mm) Fig 6b	Static Load (Kg)
85	375	800

Fig 6a

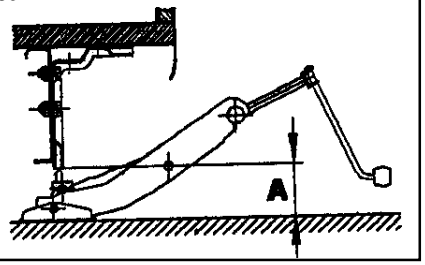
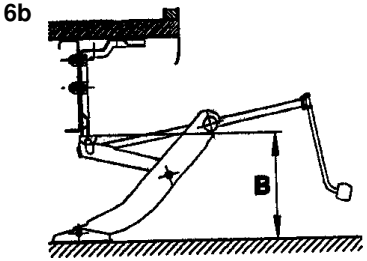


Fig 6b



AL-KO Kober Ltd
South Warwickshire Business Park
Kineton Road
Southam
Warwickshire, CV47 0AL
01926 818500 01926 818562
www.al-ko.co.uk

Part No. 1385040 Iss. 2 05/02

ASSEMBLY AND OPERATING INSTRUCTIONS FOR AL-KO SIDE LIFT JACK

PLEASE ENSURE YOU READ THESE INSTRUCTIONS CAREFULLY, BEFORE COMMENCING TO OPERATE THIS PRODUCT.

WARNINGS:

1) Never lie underneath a jacked-up vehicle, as this is highly dangerous and could result in serious injury or even death!

2) The caravan **MUST** be attached to the towing vehicle and the handbrake on both the towing vehicle and caravan **MUST** be applied.

3) The AL-KO Caravan Jack is not designed to be used as a permanent steady, but it can be used as an aid to levelling the caravan, in additional to changing the wheel.

4) In the case of manual towing vehicles, select 1st or reverse gear; with automatic towing vehicles, place the selector lever in the 'P' position.

5) As an additional safety measure, chock the caravan wheel (back and front) on the opposite side to the one to be changed.

TECHNICAL INFORMATION:

1) This product is suitable for use with caravans with a Maximum Gross Weight of 1600 Kg (800 Kg static load).

2) The jack brackets can be attached to caravans fitted with AL-KO Chassis, manufactured from 1980 onwards (drilling of the chassis required but only in accordance with the instructions printed in this handbook).

3) Caravans fitted with AL-KO Chassis manufactured after 1991, already have the pre-punched holes in the chassis frame.

KIT CONTENTS:

1 x Side Lift Jack	1 x Storage Bag (if applicable)
2 x Jack Bracket	4 x M13 Washer
2 x M12x50 Bolt	4 x M12x25 Bolt
4 x M12 Nylock Nut	2 x Spacer

1. INSTALLATION OF JACK MOUNTING BRACKETS

1.1 The jack mounting brackets can be fitted to both single and tandem axle caravans, on both sides of the chassis, behind the axle(s).

Note: Care should be taken to ensure the brackets do not interfere with any other equipment fitted in this area.

1.2 On AL-KO chassis manufactured from 1991 onwards, the mounting holes are already incorporated into the longitudinal chassis members as standard.

1.3 This jacking system can be fitted to most AL-KO chassis manufactured from 1980 onwards.

1.4 Drilling 'C' section chassis members (if necessary)

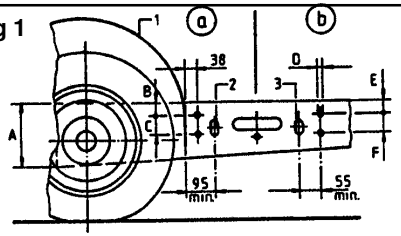
Before you start to drill the chassis members, please note the following:

1.4.1 When drilling in position "a" the clearance from the rear of the wheel arch (fig 1/item 1) to the centre of the spare wheel carrier mounting hole (fig 1/item 2) must be a minimum of 95 mm.

1.4.2 The lower face of the jack mounting bracket must hang below the lower face of the chassis member.

1.4.3 If the criteria in a) and b) cannot be met, the jack mounting brackets must be fitted behind the spare wheel carrier using holes as shown in position "b". Note minimum clearance dimension of 55 mm from the centre of the spare wheel carrier mounting hole (fig 1/item 3) to the centre of the hole for retro-fit set.

Fig 1



1.5 Drilling according to position "a" (C Section Chassis Members)

Frame Height	Hole Spacing		Hole Dia.
A (mm)	B (mm)	C (mm)	D (mm)
158	30	45	13
215	40	55	13

1.6 Drilling according to position "b" (C Section Chassis Members)

Frame Height	Hole Spacing		Hole Dia.
A (mm)	E (mm)	F (mm)	D (mm)
158	30	45	13
215	40	55	13

1.7 Apply corrosion protection (cold zinc galvanising spray - **CAUTION**: use in well ventilated area and follow instructions on tin).

1.8 Installation of jack mounting brackets on high frame chassis (215 mm)

1.8.1 Position the jack mounting bracket (fig 2/item1) with the long side on the chassis member (fig 2/item 2) lining up the holes in the bracket, with those in the chassis member, positioning the short side of the bracket against the floor of the caravan.

1.8.2 Fit M13 washers (fig 2/item 4) onto setscrews.

1.8.3 Insert setscrews M12x25 (fig 2/item 3) through both holes with bolt heads on outside of chassis member.

1.8.4 Fit the M12 self-locking nuts (fig 2/item 5) and torque up to 86 Nm.

Fig 2

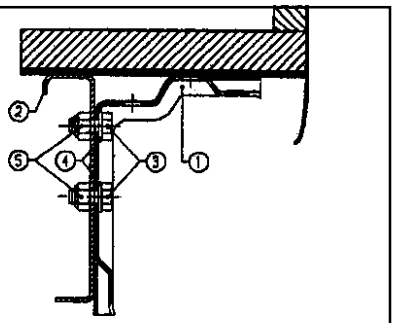
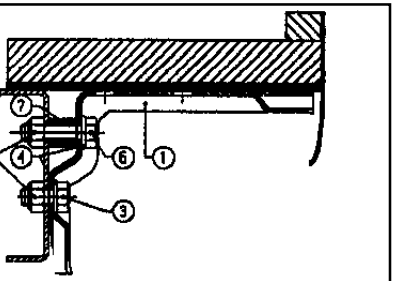


Fig 3



1.9 Installation of jack mounting brackets on low frame chassis (158 mm).

1.9.1 Position the jack mounting bracket (fig 3/item 1) with the short side on the chassis member (fig 3/item 2) in such a way that the long side in positioned against the floor of the caravan.

1.9.2 Fit M13 washers (fig 3/item 4) onto setscrews.

1.9.3 Insert M12x25 (fig 3/item 3) and M12x45 (fig 3/item 6) setscrews from the outside.

1.9.4 Fit spacer (fig 3/item 7) onto longer bolt before fitting to chassis.

1.9.5 Fit M12 self-locking nuts (fig 3/item 5) and torque to 86 Nm.

2. JACK OPERATING INSTRUCTIONS

2.1 Attach caravan to the towing vehicle and apply the handbrake on both towing vehicle and caravan.

2.2 In the case of manual towing vehicles, select 1st or reverse gear; with automatic towing vehicles, place the selector lever in the 'P' position.

2.3 As an additional safety measure chock the caravan wheel (back and front) on the opposide to the one to be changed.

2.4 Clean jack mounting brackets on the caravan if necessary.

2.5 Remove jack from storage bag (if applicable).

2.6 Extend spare wheel carrier (if applicable) to remove spare wheel.

2.7 If the ground is soft or likely to giveway, put a plank or something similar under the base plate of the jack.

2.8 Slot the insert piece (fig 4/item 1) into the jack mounting bracket (fig 4/item 2) until it connects.

Fig 4